Haley Morgan

Software Engineer • Developing anomaly detection algorithms and applying ML techniques to programs for the DoD and intelligence agencies.

Location	Watertown, MA	**GitHub**	h-morgan
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SKILLS

Languages:	Python, Java, JavaScript, C++, SQL, HTML, CSS
Frameworks/Libraries:	NumPy, PyTorch, Scikit-learn, Flask, Matplotlib, Pandas, Bootstrap, React
Tooling:	Vim, Git/GitHub, Eclipse, VS Code, AutoCAD, Solidworks
Other:	Debugging, databases, testing, teamwork, technical writing

EXPERIENCE

OCT 2019 - PRESENT — **Research Programmer – Boston Fusion Corp.** (Lexington, MA)

- Responsible for designing, developing, testing, debugging, and maintaining software of projects for use in machine learning and anomaly detection research programs
- Consult directly with Principal Investigator (PI) of research programs to determine and fulfill project requirements
- Contribute to all stages of research program – from inception to development
- Develop anomaly detection algorithms in both supervised and unsupervised capacities
- Develop parsers to aggregate data from multiple sources to develop and integrate massive processed datasets for use in software programs

OCT 2018 – SEP 2019 — **Information Privacy and Compliance Analyst – Clark University** (Worcester, MA)

- Worked with end users to continuously collect and analyze functional requirements and use cases for all enterprise projects, evolving solutions as needed
- Developed and maintained a system to triage and monitor malicious phishing emails using regex rules written in the YARA language to decrease exposure of compromised accounts
- Assist in security testing response efforts to ensure applications are as secure and stable as possible, upholding the CIA triad

APR 2017 – OCT 2018 — **Civil Engineer – Tetra Tech** (Marlborough, MA)

- Performed site and system redesign through continuous iterations as member of an interdisciplinary team to eliminate costly and unnecessary complexities
- Applied technical knowledge to design Department of Defense (DoD) and USAID international bases/sites using AutoCAD Civil3D
- Maintained Active Secret Security clearance for ability to work on classified projects

EDUCATION

JAN 2020 - PRESENT — **University of Pennsylvania**
Professional Certificate, Computer Science Essentials for Software Development

MAY 2016 — **Worcester Polytechnic Institute (WPI)**
Bachelor of Science, Civil Engineering

PROFESSIONAL DEVELOPMENT

JUL 2019 — **JavaScript Algorithms and Data Structures (300 hours)** *- FreeCodeCamp*

MAR 2019 — **Responsive Web Design (300 hours)** *- FreeCodeCamp*

MAR 2017 – FEB 2018 — **Python for Data Science** *- DataCamp*